

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	-
_	10/829,536	04/22/2004	Leo Gilles	1-25206	7311	
	46582 7	590 07/14/2005		EXAMINER		
	MACMILLAN, SOBANSKI & TODD, LLC			SICONOLFI, ROBERT		
	ONE MARITI	ME PLAZA - FOURTI	H FLOOR			
	720 WATER S	TREET		ART UNIT	PAPER NUMBER	
	TOLEDO, OH	I 43604		3683		_

DATE MAILED: 07/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	<i>ω</i> γ						
	Application No.	Applicant(s)	7				
Office Action Commons	10/829,536	GILLES, LEO					
Office Action Summary	Examiner	Art Unit					
	Robert A. Siconolfi	3683					
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet t	vith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a sly within the statutory minimum of the will apply and will expire SIX (6) MC e. cause the application to become a	n reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 25 A	<u>April 2005</u> .						
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.						
· · · · · · · · · · · · · · · · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-28 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119		,					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No	v Summary (PTO-413) b(s)/Mail Date f Informal Patent Application (PTO-152) 					

Application/Control Number: 10/829,536 Page 2

Art Unit: 3683

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3 7-28 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 99/37939.

See figures 2a, 3 brake disc 6, brake shoes 3,5, force transmission device 36, force transducer 50, means for limiting the force applied include the end of the groove 39' and the edges of the transmission device 42 (the chamber can not compress the bladder section smaller than the edges).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO99/37939.

WO 99/37939 is relied upon as above. WO 99/37939 does not disclose a force to resistance transducer but rather a generic transducer with the example of a

Application/Control Number: 10/829,536

Art Unit: 3683

piezoelectric type suggested. Force to resistance transducers such as wheatstone bridges and strain gauges are well known and are commonly available. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a force to resistance transducer in the system of WO 99/37939 as such devices are well known types of transducers and are generally cheap and fairly reliable.

Response to Arguments

- 5. Applicant's arguments filed 4/25/05 have been fully considered but they are not persuasive. Applicants argue that since fluid is incompressible all force applied to the brakes must be applied through the pressure pad and that the stops would not be reached because the pad is incompressible. This is incorrect. Just because fluid itself is (assumed) incompressible does not mean that the pressure pad is incompressible. If the pressure pad was incompressible, it would produce no pressure to activate the transducer and therefore would not work. For pressure to be generated to activate the transducer, the volume of the pressure pad and its connected conduit going to the transducer must be reduced (Boyle's law). The pressure pad clearly will compress and once the end of the groove is reached, no additional force will be applied because it will reach the maximum amount of compression and therefore, the maximum force is limited. Clearly, once the end of the groove is reached, a second transmission path through the stops will be utilized.
- 6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 10/829,536

Art Unit: 3683

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Siconolfi whose telephone number is 571-272-7124. The examiner can normally be reached on M-F 10 am-3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on (571) 272-7095. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner Art Unit 3683

RS

About August 1/9/05
ROBERT A SICONOMA

BUTENT EXAMINER